

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 04365493 A  
(43) Date of publication of application: 17.12.1992

(51) Int. Cl C12P 13/14

//(C12P 13/14, C12R 1:15), (C12P 13/14, C12R 1:13)

(21) Application number: 03178450

(22) Date of filing: 18.07.1991

(30) Priority: 10.09.1990 JP 02239295

(71) Applicant: AJINOMOTO CO INC

(72) Inventor: MURAKAMI YUTAKA

KAWAHARA YOSHIO

IMAIZUMI KOICHI

(54) PRODUCTION OF L-GLUTAMIC ACID BY  
FERMENTATION METHOD

(57) Abstract:

PURPOSE: To industrially and inexpensively obtain the subject compound by culturing a variant belonging to the genus *Brevibacterium* or *Corynebacterium*, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis.

CONSTITUTION: A variant [e.g. *Brevibacterium*

lactofermentum-vancomycin resistant variant AJ12,557 (FERM P-11,730)] belonging to the genus *Brevibacterium* or *Corynebacterium*, capable of producing L-glutamic acid, and having resistance to antibiotics with inhibitory action on cell wall synthesis, is inoculated into a medium having an osmotic pressure of 2,000-4,000 mOSm/kg.H<sub>2</sub>O which is higher than a common medium in L-glutamic acid fermentation, subjected to shaking culture at 31.5°C, L-glutamic acid is formed and accumulated in the culture solution and collected to give the objective L-glutamic acid.

COPYRIGHT: (C)1992,JPO&Japio